SAFETY DATA SHEET (SDS)

ISOLOFOAM – EXPANDED POLYSTYRENE
REVISED DATE: 2020-03-09

1. IDENTIFICATION

Product Identifier	ISOLOFOAM EXPANDED POLYSTYRENE (EPS)
Other Means of Identification	EPS Foam
Intended Use of the Product	Insulation and/or packaging and/or custom product. Not intended for food packaging.
Manufacturer Information	Isolofoam Group 1346, Vachon Nord Boulevard Sainte-Marie (QC) G6E 1N4 Canada 1-800-463-8886 info@isolofoam.com | www.isolofoam.com
Emergency Telephone	Canada – CANUTECH – 24h number – 1-613-996-6666 USA – CHEMTREC – 24h number – 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification of the Product	This product is not regulated under the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).
Label Elements	In accordance with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS), this product does not require a hazard warning label.
Precautionary Statements	**P210:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. **P261:** Avoid breathing dust/fumes (from cutting). **P280, P284:** Wear eye and respiratory protection (when sawing/sanding).
Other Hazards	Freshly expanded foam may off-gas residual blowing agent (pentane) which may accumulate in restricted or confined spaces in concentrations above the Lower Explosive Limit. Dust particles created by sanding or sawing may under certain conditions create an atmosphere with a dust explosion hazard.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	% (Weight/Weight)
Polystyrene	9003-53-6	95-98%
n-Pentane	109-66-0	< 1.5 %
Isopentane	78-78-4	< 0.5%
Graphite	7782-42-5	0 % or 3-7 %
Polymeric Flame Retardant	1195978-93-8	0-1%
Note: n-Pentane and isopentane are residual blowing agents and not intended to be part of the product. Most of the pentane off-gases prior to shipment. Only insulation made of Neopor contains graphite.		

1346, boul. Vachon Nord, Sainte-Marie (Québec) G6E 1N4 | T. : 418 387-3641 – 1 800 463-8886 | F. : 418 387-4039 | info@isolofoam.com

4. FIRST AID MEASURES

Inhalation	Inhaling vapour or mist may cause dizziness, nausea and headache. If excessive vapours are inhaled, move victim to fresh air. If symptoms persist, provide oxygen and obtain medical attention.
Ingestion	Ingestion does not present any significant danger other than a danger of obstruction if swallowed. Rinse mouth and give a glass of water to drink. Monitor the person for several days to make sure nothing is blocking. Do not induce vomiting unless directed to by a doctor. Never give anything by mouth to an unconscious or convulsing person, obtain medical attention.
Skin	Contact is not expected to present a skin hazard. Wash exposed areas with mild soap and water. Consult doctor if irritation persists.
Eyes	Contact with eyes may cause irritation. If dust or particles become lodged in eyes, rinse with eye wash solution or clean water, keeping eyelids apart. Obtain medical attention if condition is painful.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water spray, Water mist, CO^2, Foam, Chemical powder (ABC)
Unsuitable Extinguishing Media	Do not use solid water stream as it may scatter material and spread fire.
Specific Hazards Arising from the Material	The substances mentioned can be released during a fire: Dense black smoke, carbon monoxide (CO), carbon dioxide (CO_2).
Specific Protective Equipment and Precautions for Fire-fighters	Wear self-contained breathing apparatus and full body protective clothing.
Other Information	Pentane vapours may be emitted from freshly produced foam. Vapours can be ignited by heat, sparks, flames or other sources of ignition.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	N/A
Environmental Precautions	Small pieces, particles and dust can be blown by the wind and enter storm water systems and waterways. Although the product is not hazardous, excess product can result in impairment of storm water systems and waterways. Prevent loss of material to the local environment through good housekeeping practices.
Methods and Materials for Containment and Cleaning Up	Sweep up and recover or shovel into a suitable container for disposal.

1346, boul. Vachon Nord, Sainte-Marie (Québec) G6E 1N4 | T. : 418 387-3641 – 1 800 463-8886 | F. : 418 387-4039 | info@isolofoam.com

7. HANDLING AND STORAGE

Precautions for Safe Handling	Avoid all sources of ignition, do not smoke in areas where product is being stored or used. Avoid contact between the product and petroleum-based solvents or their fumes.
Precautions for Safe Building Insulation	This product is combustible. A protective barrier or thermal barrier is required as specified in the appropriate building code.
Conditions for Safe Storage	Store product away from open flame and other ignition sources. Store material in a dry place out of direct sunlight when possible. Long exposure to UV rays (sun) will result in slow surface degradation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters, Occupational Exposure Limit Values

	ACGIH TLV	
Chemical Name	**TWA**	**STEL**
Polystyrene	N/A	N/A
n-Pentane	600 ppm (1.770 mg/m^3)	750 ppm (2.210 mg/m^3)
Isopentane	600 ppm (1.770 mg/m^3)	750 ppm (2.210 mg/m^3)

ACGIH: American Conference of Governmental Industrial Hygienists (2019)
TLV: Threshold limit value TWA: Time-weighted average STEL: Short term exposure limit

Appropriate Engineering Controls	Provide sufficient general and/or local exhaust ventilation to maintain exposure below permissible personal exposure limit (PEL) or threshold limit value (TLV) for combustion products from heated cutting tools. Use local exhaust, where possible, in confined or enclosed spaces. Wear approved safety glasses and dust mask if mechanical fabrication is to take place.
Individual Protection Measures	
Respiratory Protection	Wear respiratory protection compliant with regulations and approved by the National Institute for Occupational Safety and Health (NIOSH) if the concentrations in the workplace exceed the occupational exposure limit values.
Skin Protection	Skin protection not normally required. Wear gloves and/or sleeves, if sensitivity noted.
Eye Protection	Use approved safety glasses when sawing or sanding.

1346, boul. Vachon Nord, Sainte-Marie (Québec) G6E 1N4 | T. : 418 387-3641 – 1 800 463-8886 | F. : 418 387-4039 | info@isolofoam.com

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, Physical State, Colour	Expanded polystyrene beads, rigid panel, block or different rigid forms; white, green, gray or black
Odour	None
Odour Threshold	N/A
pH	N/A
Melting Point	180 °F (82 C°) (Softening)
Freezing Point	N/A
Boiling Point	N/A
Flash Point	655 °F (346 C°)
Evaporation Rate (Butyle Acetate = 1)	N/A
Inflammability (Solid and Gaz)	Minimum Oxygen Index Limit 24%
Lower Flammability Limit (LFL) or Lower Explosive Limit (LEL)	N/A
Upper Flammability Limit (UFL) or Upper Explosive Limit (UEL)	N/A
Vapour Pressure (mm Hg.)	N/A
Vapour Density (AIR = 1)	N/A
Relative Density	0.01 to 0.05
Solubility	Insoluble in water. Soluble in hydrocarbons, esters, aldehydes and amines.
Partition Coefficient: N-Octanol/Water	N/A
Auto-ignition Temperature	850 °F (454 C°)
Decomposition Temperature	> 572°F (300°C)
Viscosity	N/A

10. STABILITY AND REACTIVITY

Reactivity	Not reactive
Chemical Stability	Normally stable
Possibility of Hazardous Reactions	None expected
Conditions to Avoid	Heat, sparks, open flames and other ignition sources
Incompatible Materials	Organic solvents, hydrocarbons, esters, amines, aldehydes
Hazardous Decomposition Products	None under normal use. In the event of fire: Carbon monoxide, carbon dioxide, styrene and pentane. Other degradation products can be released in small quantities.

1346, boul. Vachon Nord, Sainte-Marie (Québec) G6E 1N4 | T. : 418 387-3641 – 1 800 463-8886 | F. : 418 387-4039 | info@isolofoam.com

11. TOXICOLOGICAL INFORMATION

Route of Entry	Skin Contact, Eye Contact, Inhalation, Ingestion
Symptoms related to physical, chemical and toxicological characteristics	**Skin:** Frequent and prolonged contact may cause mild skin irritation. **Eyes:** Mild irritation of eyes and mucous membranes. **Inhalation:** Exposure to high concentrations of vapour may include dizziness, nausea and headaches. **Ingestion:** Danger of obstruction if swallowed in large quantities.
Delayed and immediate effects as well as chronic effects caused by short- and long-term exposure	There are no known chronic effects associated with this product.
Numerical toxicity values such as acute toxicity estimates	N/A

12. ECOLOGICAL INFORMATION

Ecotoxicity	N/A
Persistence and Degradability	N/A
Bioaccumulative Potential	N/A
Mobility in Soil	N/A
Other Adverse Effects	N/A

13. DISPOSAL CONSIDERATIONS

Material is 100% recyclable, recover or recycle if possible. Send waste material to a residual materials treatment site or bury it in an approved landfill or disposal via incineration operated by an accredited disposal contractor.

Dispose of contents and packaging in safe containers and in accordance with local, regional or national regulations.

14. TRANSPORTATION INFORMATION

Not regulated under Canadian Transportation of Dangerous Goods (TDG) Regulations.
Not regulated under US Department of Transportation (DOT) Regulations.

Special precautions concerning transport or movement inside or outside the company:
Do not expose to an ignition source. Long exposure to UV rays (sun) will result in slow surface degradation.

15. REGULATORY INFORMATION

The product classification and the Safety Data Sheet (SDS) have been developed in accordance with the Hazardous Materials Directories (RPD) and the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

16. OTHER INFORMATION

Safety Data Sheet (SDS) Prepared by	Isolofoam Group
Date of Preparation or Last Revision	2020/03/09

1346, boul. Vachon Nord, Sainte-Marie (Québec) G6E 1N4 | T. : 418 387-3641 – 1 800 463-8886 | F. : 418 387-4039 | info@isolofoam.com